

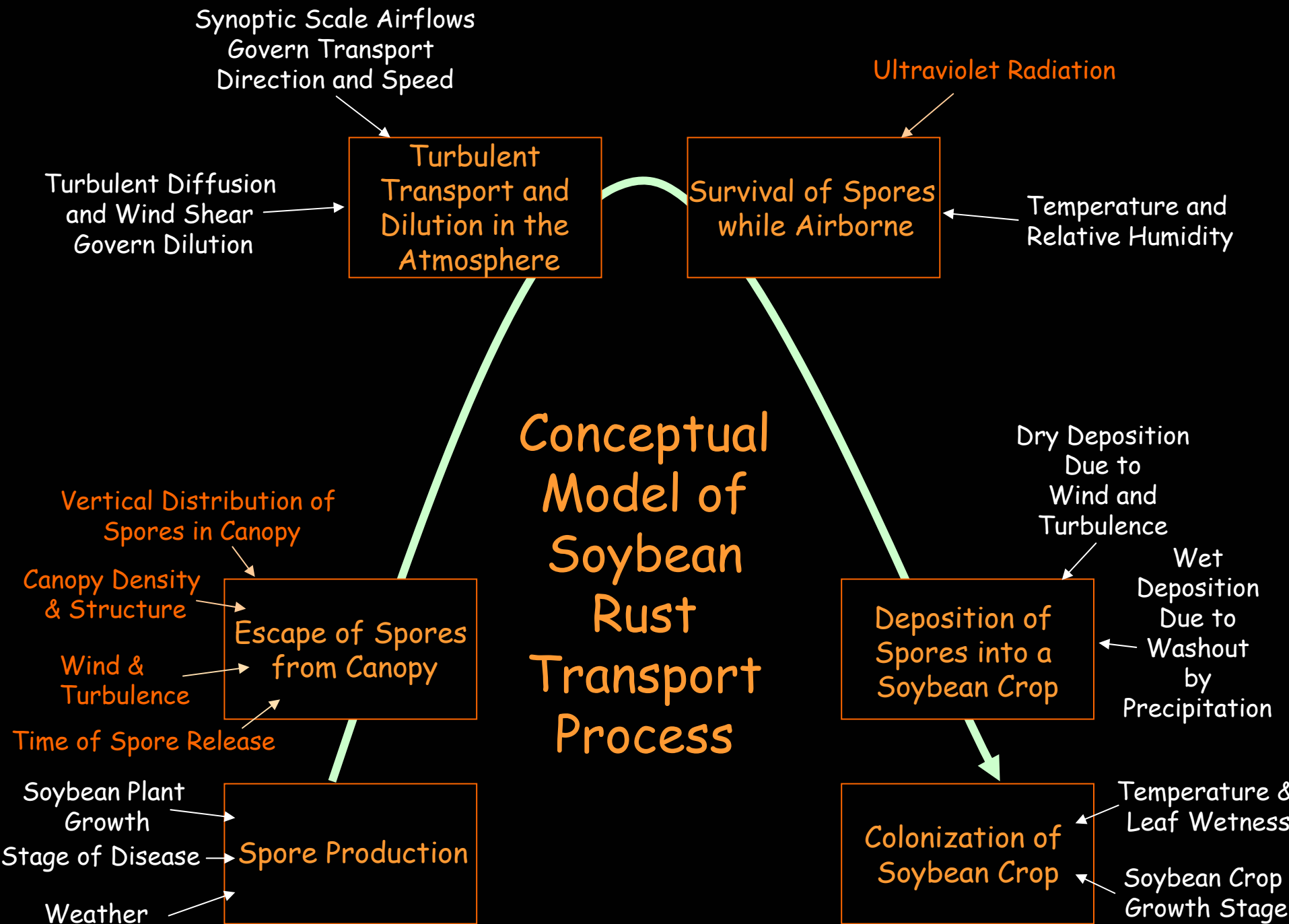
Soybean Rust as a Model

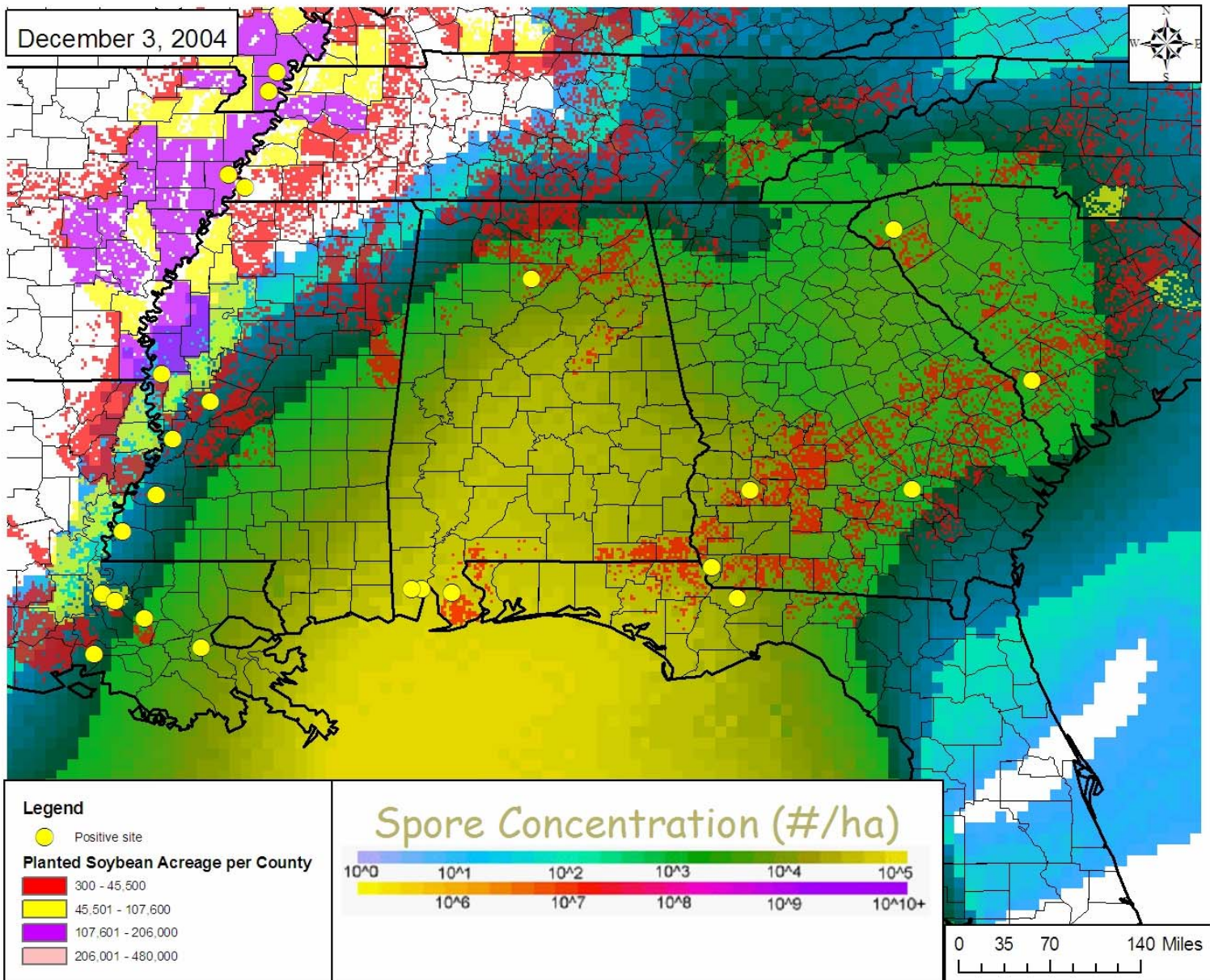
Dan Borchert, USDA-APHIS-PPQ-CHPST
Joe Russo, ZedX, Inc.

Special Thanks to

Scott Isard, Pennsylvania State University
Roger Magarey, North Carolina State University
Glenn Hartman, USDA-ARS
Monte Miles, USDA-ARS

National CAPS Meeting
Nashville, TN
December 7, 2005





Soybean Rust Activity Flow

From Planning to Management



Planning



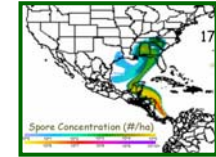
Training



Education



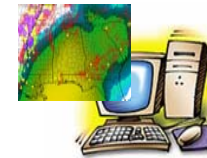
Research



Modeling



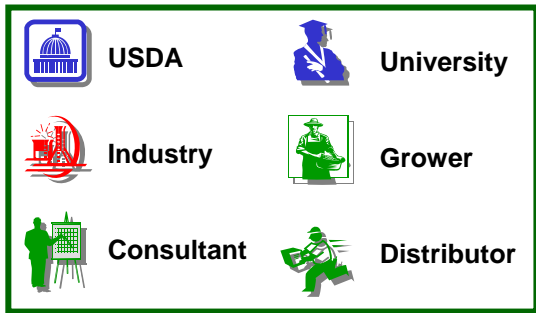
**Monitoring
& Scouting**



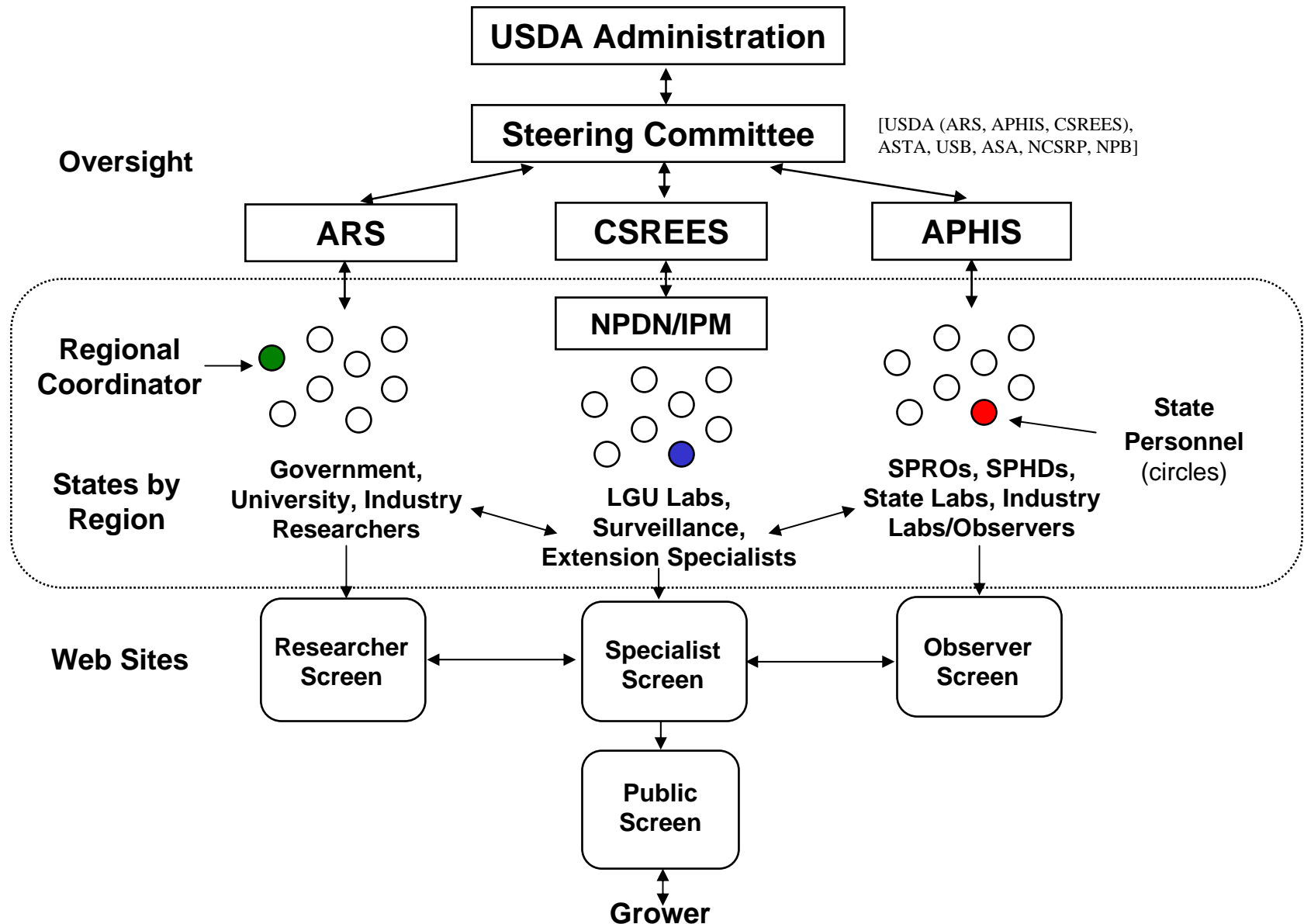
**Information
Dissemination**




Management



Soybean Rust Personnel Infrastructure




USDA Public Web Site


United States Department of Agriculture

Soybean Rust Information Site

[Getting Started](#)


[Map Description](#)
- Overlay -
[Load](#)

Prev **Next**

June - 2005

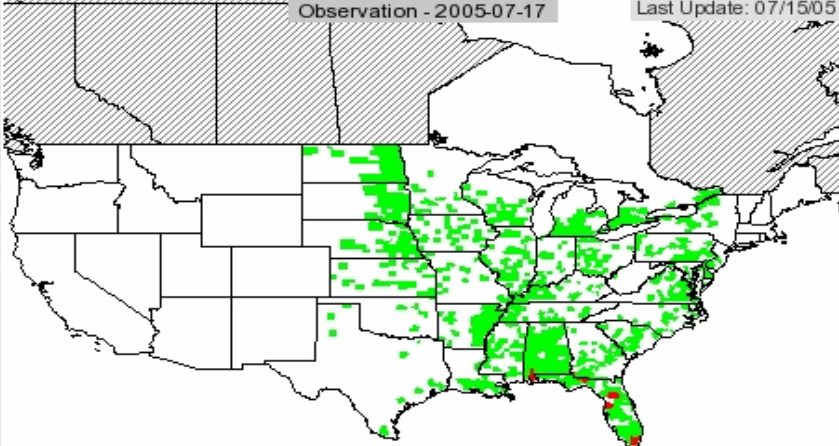
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July - 2005

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

August - 2005

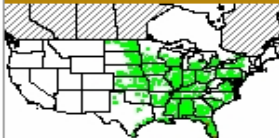
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			




Observation - 2005-07-17 Last Update: 07/15/05

scouted, not found scouted, confirmed

Sign Up For Alerts
Jul 17, 2005

Observation


State Update Map



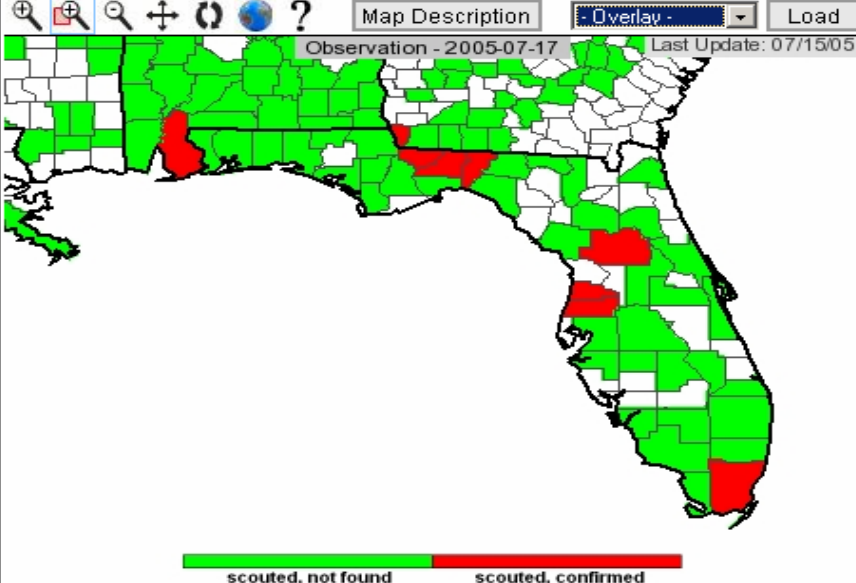
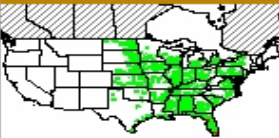

SBR Forecast (07/17/05)
 Favorable disease weather continues in eastern U.S. areas as mobile teams are en route to vulnerable southeastern states.
[Click For Details...](#)

Additional Links
[Aerobiology Risk Analysis](#)
[American Phytopath Society Home Page](#)
[Soybean rust Identification card](#)


USDA Links
[APHIS-PPQ Soybean Rust Site](#)
[CSREES Web site](#)
[National Plant Diagnostic Network site](#)
[Return to: USDA Soybean Rust Web Site](#)

[Printable Map](#)
National Map Commentary (updated: 07/11/05)
 Soybean rust has now been reported on soybeans in the following locations: Baldwin County in Alabama, Marion County in Florida (6/29) and Seminole County in Georgia. The Alabama and Florida finds were in sentinel sites, while the Georgia find was on volunteer soybeans which have since been destroyed. Seven counties in Florida have now reported soybean rust on kudzu, the latest find was in Gadsden county on July 5th which is adjacent to Leon County in Northern Florida. Intensive scouting is continuing throughout eastern North America from the Gulf coast to southern Ontario wherever soybean is grown with no new finds. As new tropical storms, like Dennis, push through from the south to the north, there is more possibilities of spore dispersal from known infected sites in Florida and Alabama to the north. Additional moisture from the tropical storms will provide conditions conducive for soybean rust development.

USDA Public Web Site

 United States Department of Agriculture		Soybean Rust Information Site																																																																																																										
Getting Started Prev Next June - 2005 <table border="1"> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td></tr> </table> July - 2005 <table border="1"> <tr><td></td><td></td><td></td><td></td><td></td><td>1</td><td>2</td></tr> <tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr> <tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr> <tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>31</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> August - 2005 <table border="1"> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> <tr><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td></tr> </table>		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				 <p>Observation - 2005-07-17 Last Update: 07/15/05</p> <p>Map Description Overlay Load</p> <p>scouted, not found scouted, confirmed</p>	
5	6	7	8	9	10	11																																																																																																						
12	13	14	15	16	17	18																																																																																																						
19	20	21	22	23	24	25																																																																																																						
26	27	28	29	30																																																																																																								
					1	2																																																																																																						
3	4	5	6	7	8	9																																																																																																						
10	11	12	13	14	15	16																																																																																																						
17	18	19	20	21	22	23																																																																																																						
24	25	26	27	28	29	30																																																																																																						
31																																																																																																												
	1	2	3	4	5	6																																																																																																						
7	8	9	10	11	12	13																																																																																																						
14	15	16	17	18	19	20																																																																																																						
21	22	23	24	25	26	27																																																																																																						
28	29	30	31																																																																																																									
USDA Links APHIS-PPQ Soybean Rust Site CSREES Web site National Plant Diagnostic Network site Return to: USDA Soybean Rust Web Site		Printable Map State Commentary Not Available National Map Commentary (updated: 07/11/05) <p>Soybean rust has now been reported on soybeans in the following locations: Baldwin County in Alabama, Marion County in Florida (6/29) and Seminole County in Georgia. The Alabama and Florida finds were in sentinel sites, while the Georgia find was on volunteer soybeans which have since been destroyed. Seven counties in Florida have now reported soybean rust on kudzu, the latest find was in Gadsden county on July 5th which is adjacent to Leon County in Northern Florida. Intensive scouting is continuing throughout eastern North America from the Gulf coast to southern Ontario wherever soybean is grown with no new finds. As new tropical storms, like Dennis, push through from the south to the north, there is more possibilities of spore dispersal from known infected sites in Florida and Alabama to the north. Additional moisture from the tropical storms will provide conditions conducive for soybean rust development.</p>																																																																																																										
		Sign Up For Alerts Jul 17, 2005 Observation  State Update Map  SBR Forecast (07/17/05) <p>Favorable disease weather continues in eastern U.S. areas as mobile teams are en route to vulnerable southeastern states.</p> <p>Click For Details...</p>																																																																																																										
		Additional Links Aerobiology Risk Analysis American Phytopath. Society Home Page Soybean rust Identification card																																																																																																										

USDA Public Web Site



United States Department of Agriculture

**Soybean Rust
Information Site**

Getting Started

[Prev](#) [Next](#)

June - 2005

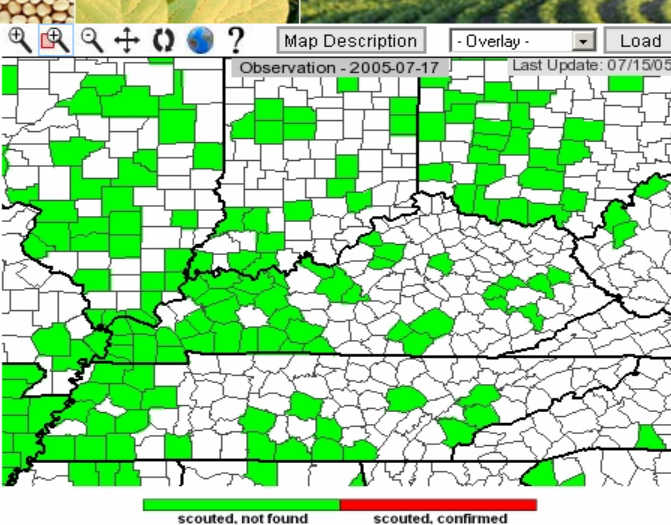
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July - 2005

				1	2
3	4	5	6	7	8
9	10	11	12	13	14
15	16	17	18	19	20
21	22	23	24	25	26
27	28	29	30	31	

August - 2005

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

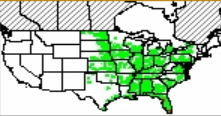


Observation - 2005-07-17 Last Update: 07/15/05


scouted, not found scouted, confirmed

Sign Up For Alerts
Jul 17, 2005

Observation



State Update Map



SBR Forecast (07/17/05)
Favorable disease weather continues in eastern U.S. areas as mobile teams are en route to vulnerable southeastern states.
[Click For Details...](#)

USDA Links (KY)
[Univ. of KY Soybean Rust Website](#)

Printable Map
Kentucky Map Commentary (updated: 07/17/05)

As of July 17, 2005, NO SOYBEAN RUST HAS BEEN DETECTED IN KENTUCKY. Ten presumed spores of the soybean rust fungus were identified on July 7 from spore traps located near Woodburn, Warren County, Ky. Deposition in this spore trap occurred sometime during the period June 27 - July 5. A team of six searched the area where the spore trap is located for nearly two hours on Friday afternoon, (July 15) and found NO EVIDENCE of soybean rust. This lack of soybean rust was confirmed by Dr. T. Yoninon who was also able to visit the site.

Forty-seven sentinel plots continue to be monitored every 3-4 days and the diagnostic laboratories are closely monitoring all soybean samples for soybean rust.


The first find of soybean rust in a commercial soybean field for 2005 was made July 13 in Baldwin County (extreme southern) Alabama. The practical significance of this finding is that it provides more evidence that the soybean rust epidemic is heating up to a certain extent in the US.

We are seeing the following common soybean problems: charcoal rot, ozone damage, thrip damage, downy mildew, brown spot, bacterial blight, andyes, "dirt". Soil particles on the lower leaf can look like a disease to the naked eye.

[More...](#)

Additional Links
[Aerobiology Risk Analysis](#)
[American Phytopath.](#)
[Society Home Page](#)
[Soybean rust Identification card](#)

USDA Public Web Site


United States Department of Agriculture

Soybean Rust Information Site

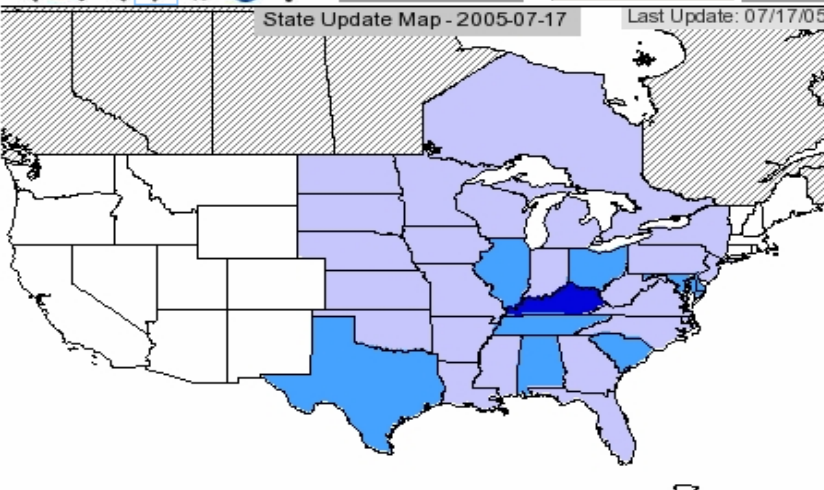
[Getting Started](#)

[Prev](#)
[Next](#)

June - 2005						
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July - 2005						
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

August - 2005						
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			




State Update Map - 2005-07-17 Last Update: 07/17/05

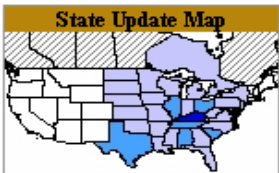
Last Commentary Update (Based on Central Time)

Today Within 3 Days Over 3 days Ago Not Available

[Map Description](#)
[- Overlay -](#)
[Load](#)

Sign Up For Alerts
Jul 17, 2005

Observation


State Update Map



SBR Forecast (07/17/05)
 Favorable disease weather continues in eastern U.S. areas as mobile teams are en route to vulnerable southeastern states.
[Click For Details...](#)

USDA Links
[APHIS-PPO Soybean Rust Site](#)
[CSREES Web site](#)
[National Plant Diagnostic Network site](#)
[Return to: USDA Soybean Rust Web Site](#)


[Printable Map](#)
National Map Commentary (updated: 07/11/05)
 Soybean rust has now been reported on soybeans in the following locations: Baldwin County in Alabama, Marion County in Florida (6/29) and Seminole County in Georgia. The Alabama and Florida finds were in sentinel sites, while the Georgia find was on volunteer soybeans which have since been destroyed. Seven counties in Florida have now reported soybean rust on kudzu, the latest find was in Gadsden county on July 5th which is adjacent to Leon County in Northern Florida. Intensive scouting is continuing throughout eastern North America from the Gulf coast to southern Ontario wherever soybean is grown with no new finds. As new tropical storms, like Dennis, push through from the south to the north, there is more possibilities of spore dispersal from known infected sites in Florida and Alabama to the north. Additional moisture from the tropical storms will provide conditions conducive for soybean rust development.

Additional Links
[Aerobiology Risk Analysis](#)
[American Phytopath Society Home Page](#)
[Soybean rust Identification card](#)

USDA Public Web Site


**United States Department of Agriculture**


Soybean Rust Information Site

[Getting Started](#) [Prev](#) [Next](#)  [Map Description](#) [- Overlay -](#) [Load](#)

State Update Map - 2005-07-17 Last Update: 07/17/05

[Sign Up For Alerts](#)
Jul 17, 2005

Observation


State Update Map


SBR Forecast (07/17/05)
Favorable disease weather continues in eastern U.S. areas as mobile teams are en

APHIS - Microsoft Internet Explorer
Select a State: **Kentucky [07/17/05]**

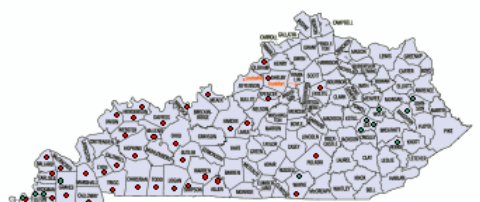
Last Updated: 07/17/05
Don Hershman
Extension Plant Pathologist
University of Kentucky

Observations
As of July 17, 2005, NO SOYBEAN RUST HAS BEEN DETECTED IN KENTUCKY. Ten presumed spores of the soybean rust fungus were identified on July 7 from spore traps located near Woodburn, Warren County, Ky. Deposition in this spore trap occurred sometime during the period June 27 - July 5. A team of six searched the area where the spore trap is located for nearly two hours on Friday afternoon, (July 15) and found NO EVIDENCE of soybean rust. This lack of soybean rust was confirmed by Dr. T. Yorinori who was also able to visit the site. Forty-seven sentinel plots continue to be monitored every 3-4 days and the diagnostic laboratories are closely monitoring all soybean samples for soybean rust. The first find of soybean rust in a commercial soybean field for 2005 was made July 13 in Baldwin County (extreme southern) Alabama. The practical significance of this finding is that it provides more evidence that the soybean rust epidemic is heating up to a certain extent in the US. We are seeing the following common soybean problems: charcoal rot, ozone damage, thrip damage, downy mildew, brown spot, bacterial blight, andyes, "dirt". Soil particles on the lower leaf can look like a disease to the naked eye.


Growth Stages
A significant percentage of Kentucky's full-season soybean crop has developed a full canopy or is in the early to mid-reproductive stages. Doublecrop beans are generally in the early to mid vegetative stages.

Management
In my opinion, it is very premature to think about spraying for soybean rust. Spraying now may result in the need for a second spray later in the month or August when a fungicide application may be truly necessary. Until there is some evidence that a soybean rust epidemic is beginning to take form, it is suggested that the spray rig remain in the barn and your money in the bank. Note: If needed, Kentucky soybean producers MAY use section 18 fungicides at their discretion, but only with soybean rust management in mind AND when the soybean rust risk is determined to be high, based on credible sources of information.







Forecast Outlook
Tropical storm Dennis may have moved rust spores into the midsouth, including KY. However, eight spore traps sampled since Dennis have ALL been negative for any rust-like spores. If spores were blown in, infections resulting from Dennis will not be evident until July 21-26. If spores were moved into Kentucky, numbers would be very low as the source area for soybean rust spores in AL, FL, and GA is not extensive and also due to the dilution factor associated with the great distances involved. The soybean rust risk for Kentucky is still LOW because of

2005 Kentucky Soybean Rust Sentinel and Monitoring Network

• = Sentinel plot location
• = Kudzu
Unknown Zone

USDA Public Web Site

**United States Department of Agriculture**

Soybean Rust Information Site

[Getting Started](#) |      

Map Description | Soybean Areas | Load

ation - 2005-07-17 | Last Update: 07/15/05

SBR Forecast - Microsoft Internet Explorer

Last Updated: 07/17/05 06:02 PM

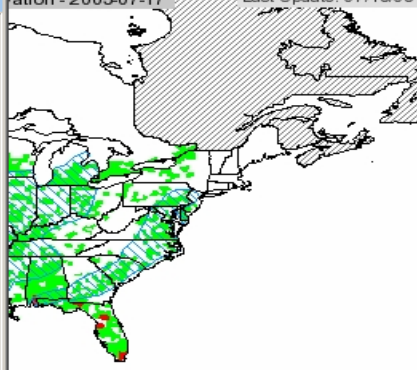
Light to moderate rain showers will gradually become more isolated in eastern U.S. over the next two days, with drier weather beginning to move in on Wednesday in the northern states. The combination of cloudiness, warm temperatures and moisture will continue to bring favorable weather for disease development east of line extending from eastern Texas, Arkansas, Missouri, Illinois, eastern Michigan, and southeastern Ontario through Tuesday this week. However, this favorable disease weather will become spottier as the week progresses due to the expected build up of high pressure off the U.S. East Coast.

With the forecast of prevailing southwesterly winds, the soybean rust model predicts new soybean rust inoculum depositions are possible over the next few days in Georgia, and Alabama, eastern Tennessee, eastern Kentucky, the Carolinas, Virginia, West Virginia, eastern Pennsylvania, Maryland, Delaware, New Jersey, the extreme southeastern New York, and the southern half of New England. After mid week, new deposition areas are expected to be limited to the southeastern U.S. The accumulated spore deposition this season up through Tuesday covers an area extending east from extreme eastern Texas, extreme eastern Oklahoma, Arkansas, Missouri, Illinois, Lower Michigan, and south from southern Ontario, southern New York and southern New England. The highest spore depositions to date are limited to Alabama, Georgia, and western South Carolina. While the model indicates transport to an extended area of the eastern U.S. and southern Ontario, there is still much uncertainty as to how many spores are actually being deposited. Infections resulting from the recent tropical systems will not be observable until late this week in areas that have experienced favorable weather conditions.

In addition to new spore transport, favorable weather conditions for infection are predicted to continue through mid week in the already active source areas in Florida, Alabama and Georgia. Mobile teams are en route to assist in the already intensive scouting effort in those states, which are currently the most vulnerable region for the spread of new infections.

Hurricane Emily is currently west of the Grand Cayman Islands and moving in a west-northwest direction towards the Mexican Yucatan peninsula. The most recent National Hurricane Center advisory reports that Emily is expected to maintain its strong Category 4 (131-155 mph) winds as it makes landfall on the Yucatan peninsula late tonight or early Monday morning. It is predicted to weaken as it crosses over the peninsula. The current forecast path has Emily reaching the northeastern Mexican coast late Tuesday night. However, until its future path becomes better known, it will be difficult to assess the impact of hurricane Emily on soybean rust activity in the U.S.

Visitors are encouraged to check this Forecast Box daily, as well as the Observation and State Update screens on this web site to follow the progress of sentinel plots and scouting in their local areas. Visitors are also encouraged to frequently consult the Forecast Outlook and Disease Management commentaries supplied by state soybean specialists.

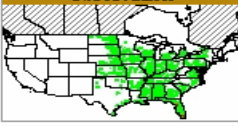


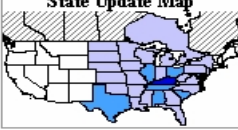
Legend:
Green: favorable disease weather
Red: areas as mobile teams are en route to vulnerable southeastern states

[Printable Map](#)

Commentary (updated: 07/11/05)
on soybeans in the following locations: Baldwin County in Florida (6/29) and Seminole County in Georgia. In sentinel sites, while the Georgia find was once been destroyed. Seven counties in Florida (Alachua, Duval, and others) have been destroyed. The latest find was in Gadsden county on 6/29. Intensive scouting is being conducted in the north from the Gulf coast to southern states, with no new finds. As new tropical storms, like Hurricane Emily, move to the north, there is more possibilities of spore transport to Florida and Alabama to the north. Additional information will provide conditions conducive for soybean rust development.

Sign Up For Alerts
Jul 17, 2005

Observation


State Update Map


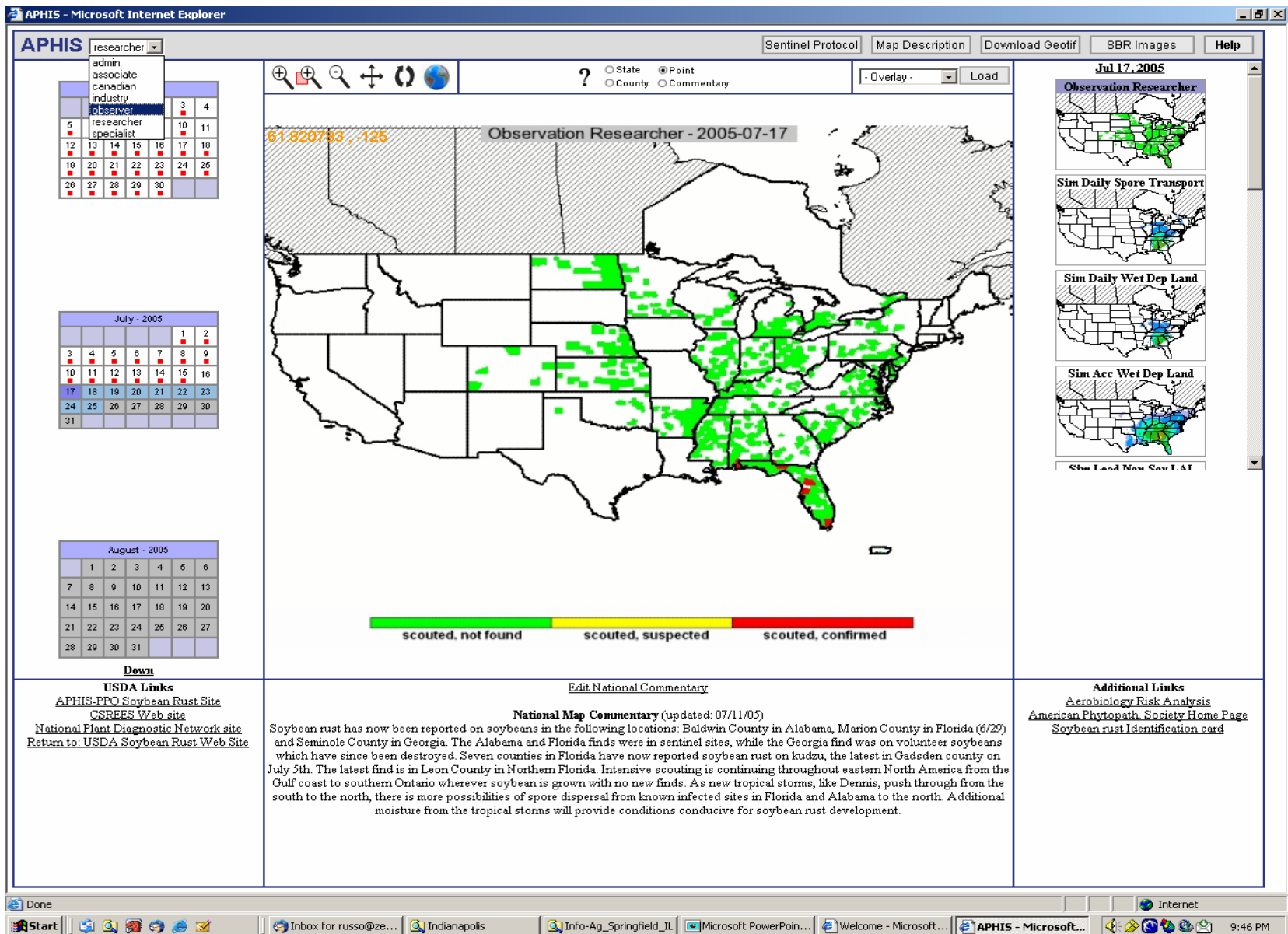
SBR Forecast (07/17/05)
Favorable disease weather continues in eastern U.S. areas as mobile teams are en route to vulnerable southeastern states.
[Click For Details...](#)

Additional Links
[Aerobiology Risk Analysis](#)
[American Phytopathological Society Home Page](#)
[Soybean rust Identification card](#)

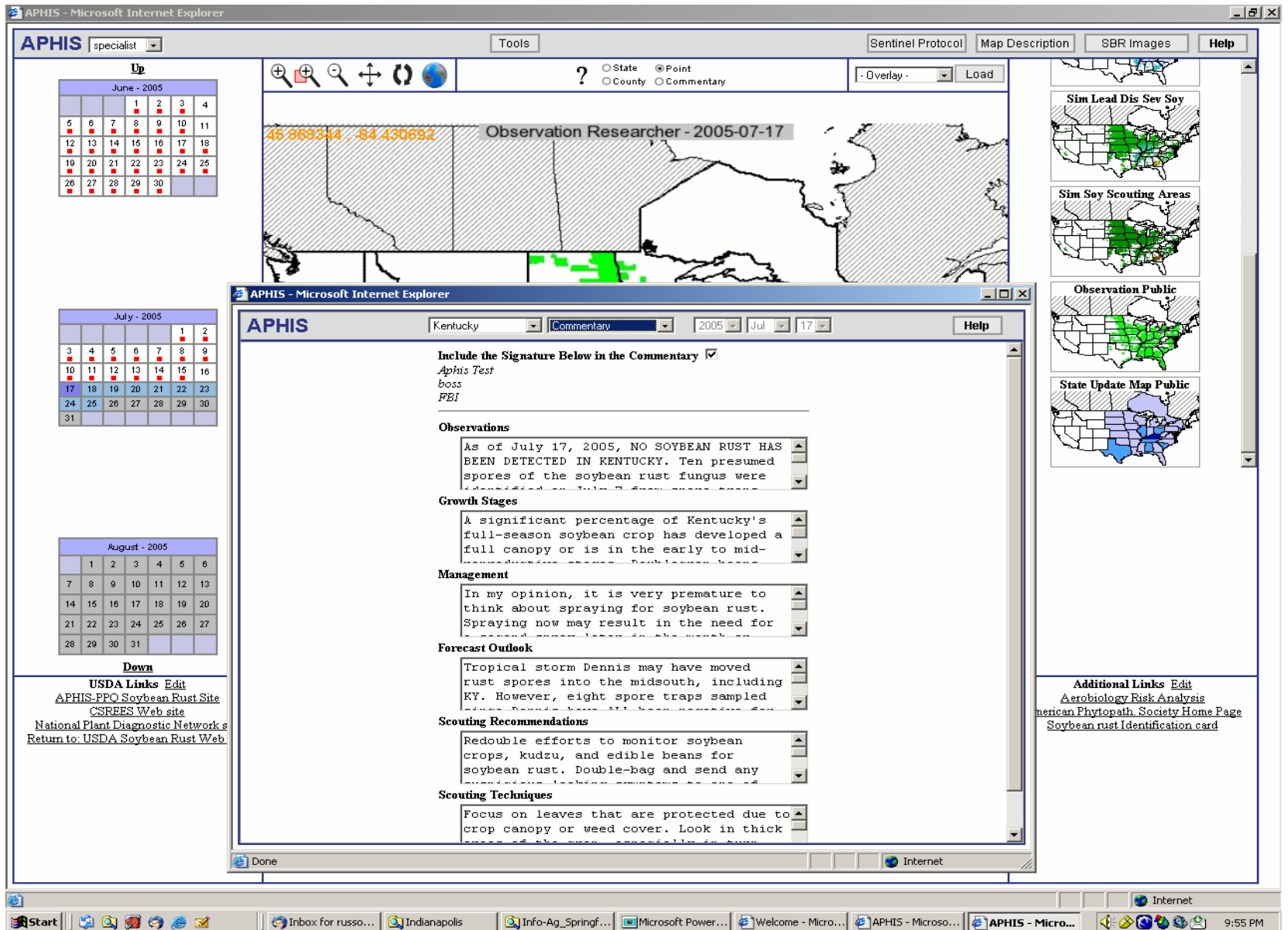
Done

Internet

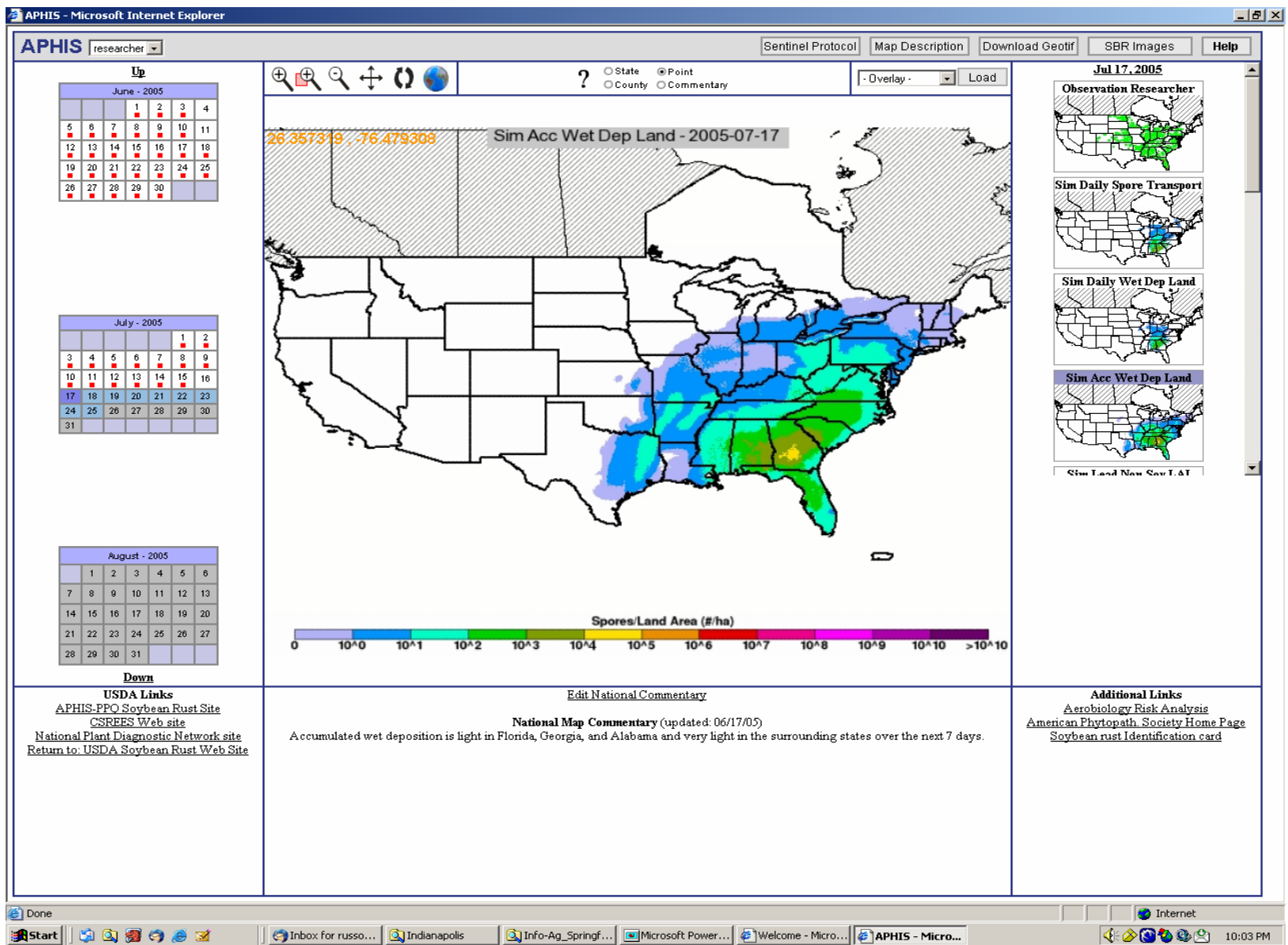
Participant Web Site Views



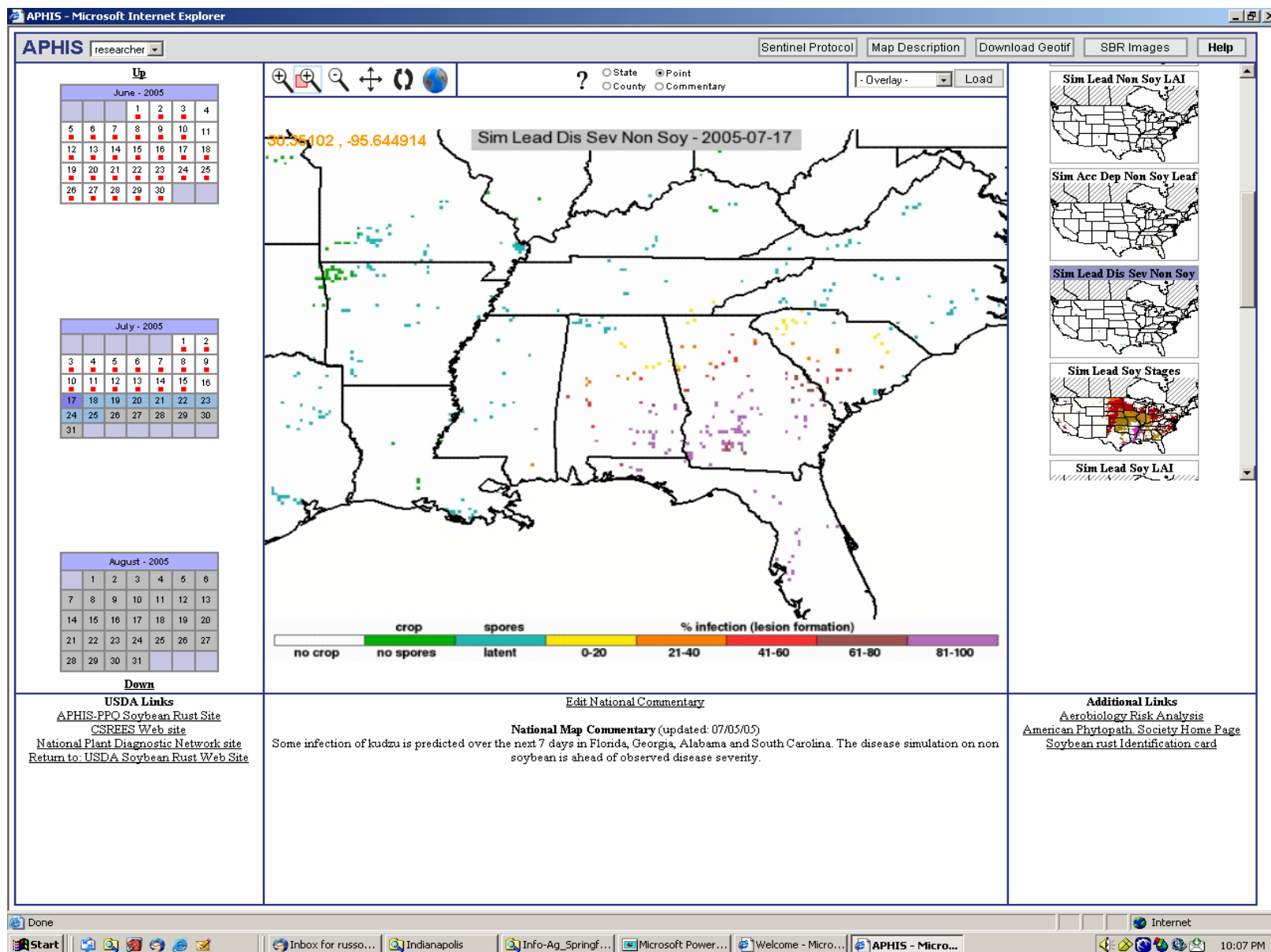
Specialist Web Site View



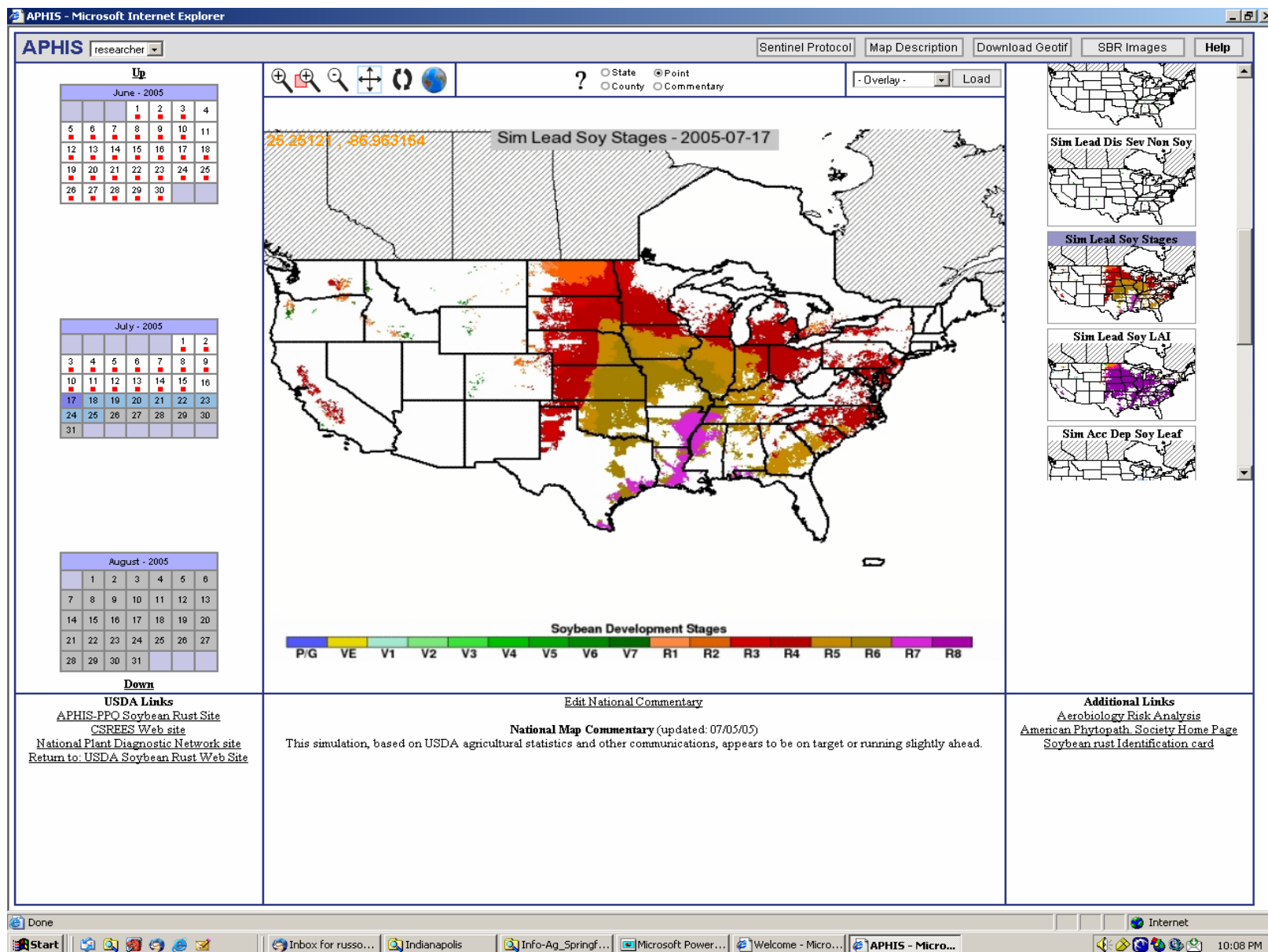
Researcher Web Site View



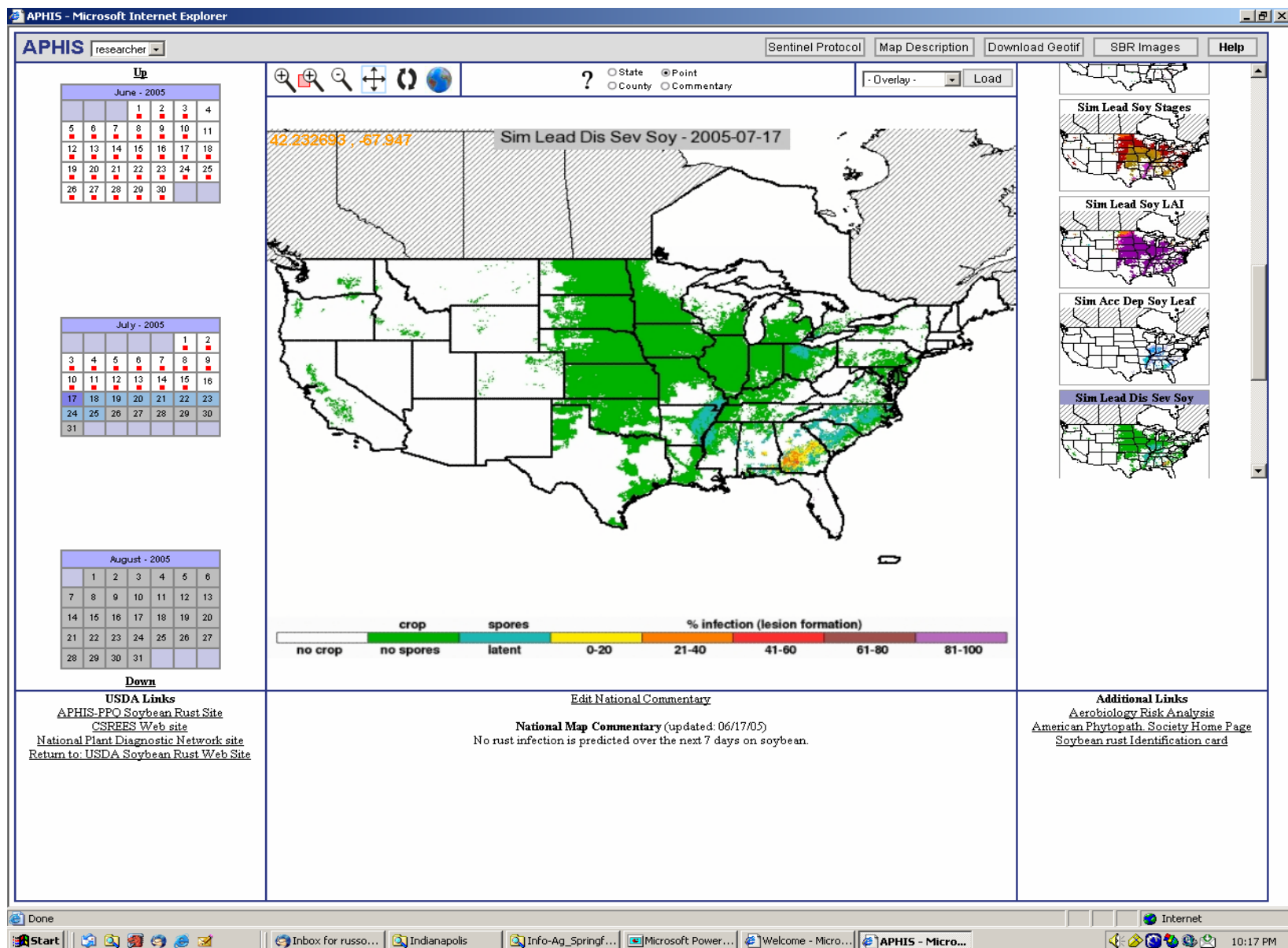
Researcher Web Site View



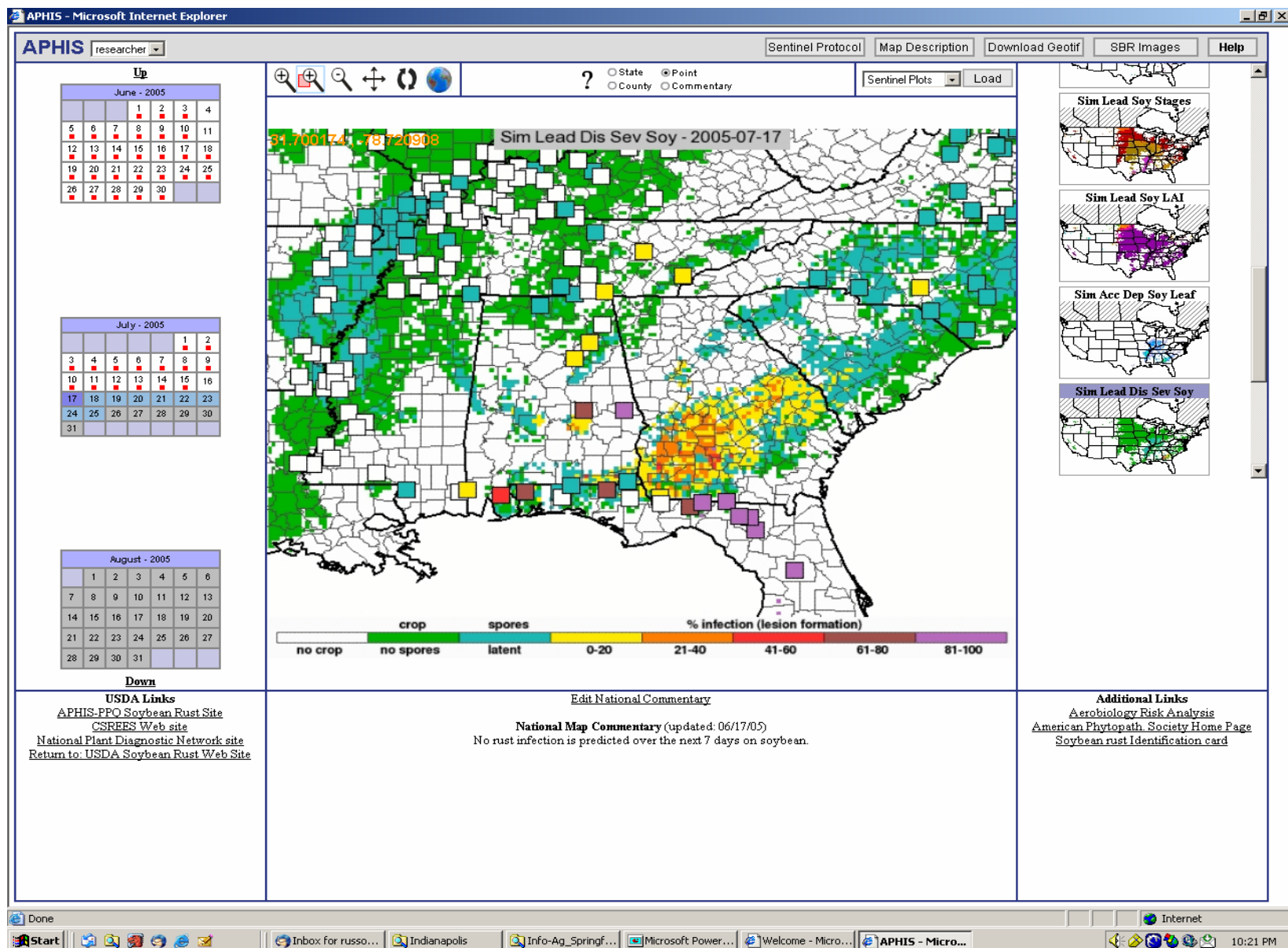
Researcher Web Site View



Researcher Web Site View



Researcher Web Site View



Observer Web Site View

APHIS - Microsoft Internet Explorer

APHIS observer

Sentinel Protocol Map Description SBR Images Help

Up

June - 2005

						1	2	3	4
5	6	7	8	9	10	11			
12	13	14	15	16	17	18			
19	20	21	22	23	24	25			
26	27	28	29	30					

July - 2005

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

August - 2005

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Down

Observation Forms

[Form Help](#) [PDA Software](#)

	Online Entry	Download Excel	Upload Excel
Scout	Enter	Enter	Enter
Lab	Enter	Enter	Enter
Plot	Enter	Enter	Enter

32.277718, -93.838923 Observation Researcher - 2005-07-17

APHIS - Microsoft Internet Explorer

Source APHIS
Observer Aphis Test

Obs Date 2005 Jul 17

Country USA

State --

County --

Location Type --

Location Name - Select one or enter below -

Longitude (DD)

Latitude (DD)

Host --

Cultivar

Plant Stage --

Obs Type --

Value --

Notes/Herbicide Usage

Save Obs

Done Internet

Jul 17, 2005

Observation Researcher

Sim Lead Dis Sev Non Soy

Sim Lead Soy Stages

Sim Acc Dep Soy Leaf

Sim Lead Dis Sev Soy

Legend: suspected (yellow), scouted, confirmed (red)

ry (updated: 07/11/05)
tions: Baldwin County in Alabama, Marion County in Florida (6/29)
in sentinel sites, while the Georgia find was on volunteer soybeans
reported soybean rust on kudzu, the latest in Gadsden county on
e scouting is continuing throughout eastern North America from the
w finds. As new tropical storms, like Dennis, push through from the
down infected sites in Florida and Alabama to the north. Additional
tions conducive for soybean rust development.

Send Email

Done

Internet

Start

Inbox for rus... Indianapolis Info-Ag_Spri... Microsoft Po... Welcome - Mi... APHIS - Mic... APHIS - Mic... PDA Softwar...

9:50 PM

Soybean Rust PDA

Setup GPS Signal

Scouter 11:48 ok

Lat:00.00000xLon:00.00000
Sats:0 GMT:000000

-All Counties-
-All Locations-

◀ December 2005 ▶

S	M	T	W	T	F	S
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Today: 12/2/05

States HH



Display GPS Configuration

Scouter 11:50

Lat:00.00000xLon:00.00000

GPS Setup X

COM Port BAUD Rate
COM5: 4800

Interval (seconds)
3 Auto configure

Found GPS at COM5:

OK Cancel

Today: 12/2/05

Soybean Rust PDA

Click Calendar Date

Scouter 11:51 ok

Lat:40.88818xLon:-77.77561
Sats:4 GMT:000003

-All Counties-
-All Locations-

◀ September 2005 ▶

S	M	T	W	T	F	S
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Today: 9/26/05

States HI



Create New Observation

Scouter 11:52 ok

12/2/05 New OBS

No Entries on this date

Back

Soybean Rust PDA

Enter Location Information

Scouter 5:23 ok

County:
Adams

Location type:
Sentinel

Location name (optional):
FPAC 5

Note: You may type a location name.
It will be saved for later use.

Cancel Next



Enter Observations

Scouter 5:27 ok

Adams/FPAC 5

Host SOYBEAN

Cultivar unknown

Plant stage V21

Type Presence

Value Maybe

Note
Possible infestation

Lat:40.88815xLon:-77.77563
Sats:4 GMT:000142

Save Save w/pic Cancel

Soybean Rust PDA

Click Picture

The screenshot shows the Scouter application interface. At the top is a blue header bar with the Scouter logo, the text 'Scouter', a speaker icon, the time '5:27', and an 'ok' button. Below the header is a text field containing 'Adams/FPAC 5'. This is followed by several dropdown menus: 'Host' set to 'SOYBEAN', 'Cultivar' set to 'unknown', 'Plant stage' set to 'V21', 'Type' set to 'Presence', and 'Value' set to 'Maybe'. Below these is a 'Note' section with a text area containing 'Possible infestation'. At the bottom of the form, there are three buttons: 'Save', 'Save w/pic', and 'Cancel'. Below the buttons, the coordinates 'Lat:40.88815xLon:-77.77563' and 'Sats:4 GMT:000142' are displayed. A blue arrow points from this interface towards the right.

Scouter 5:27 ok

Adams/FPAC 5

Host SOYBEAN

Cultivar unknown

Plant stage V21

Type Presence

Value Maybe

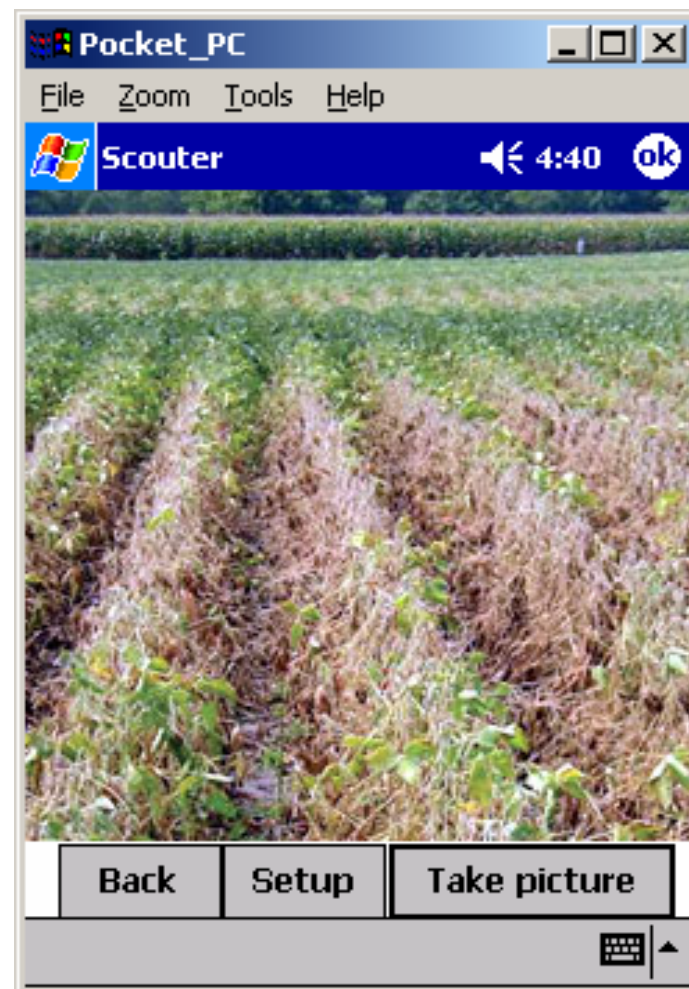
Note

Possible infestation

Lat:40.88815xLon:-77.77563
Sats:4 GMT:000142

Save Save w/pic Cancel

Display Picture



Soybean Rust PDA

Click New Entry Calendar Date

Scouter 5:30 ok

Lat:40.88816xLon:-77.77565
Sats:4 GMT:000245

Adams

Sentinel

◀ September 2005 ▶

S	M	T	W	T	F	S
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Today: 9/26/05

States OH ⌨



Display New Observation

Scouter 5:28 ok

9 / 26 / 05 ▲▼ New OBS

Adams
Sentinel(FPAC 5)(Pic)

Back

⌨

Soybean Rust PDA

Click Calendar Date

Pocket_PC

File Zoom Tools Help

Scouter 4:33 ok

Scouter v2.99

-All Groups-

-All Counties-

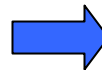
-All Locations-

February 2005

S	M	T	W	T	F	S
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	1	2	3	4	5
6	7	8	9	10	11	12

Today: 2/2/05

Mode



Display Existing Observations

Pocket_PC

File Zoom Tools Help

Scouter 4:34 ok

2 / 2 /05 NEW OBS

☐ APHIS
☐ IL:Logan
☐ soybean
Soybean rust(pic)

Back

Soybean Rust PDA

Click Observation

Pocket_PC

File Zoom Tools Help

Scouter 4:34 ok

2 / 2 /05 NEW OBS

APHIS
IL:Logan
soybean
Soybean rust(pic)

Back



Display Data

Pocket_PC

File Zoom Tools Help

Scouter 4:34 ok

Commodity soybean
Pest Disease
ID Soybean rust
Plant stage V3

Amount 80 %/pl 2 - EIL

Note
test note

Lat:40.88801xLon:-77.77564

Save Save w/pic Cancel

Pic

Soybean Rust PDA

Click Picture

Pocket_PC

File Zoom Tools Help

Scouter 4:34 ok

Commodity soybean

Pest Disease

ID Soybean rust

Plant stage V3

Amount 80 %/pl 2 - EIL

Note test note

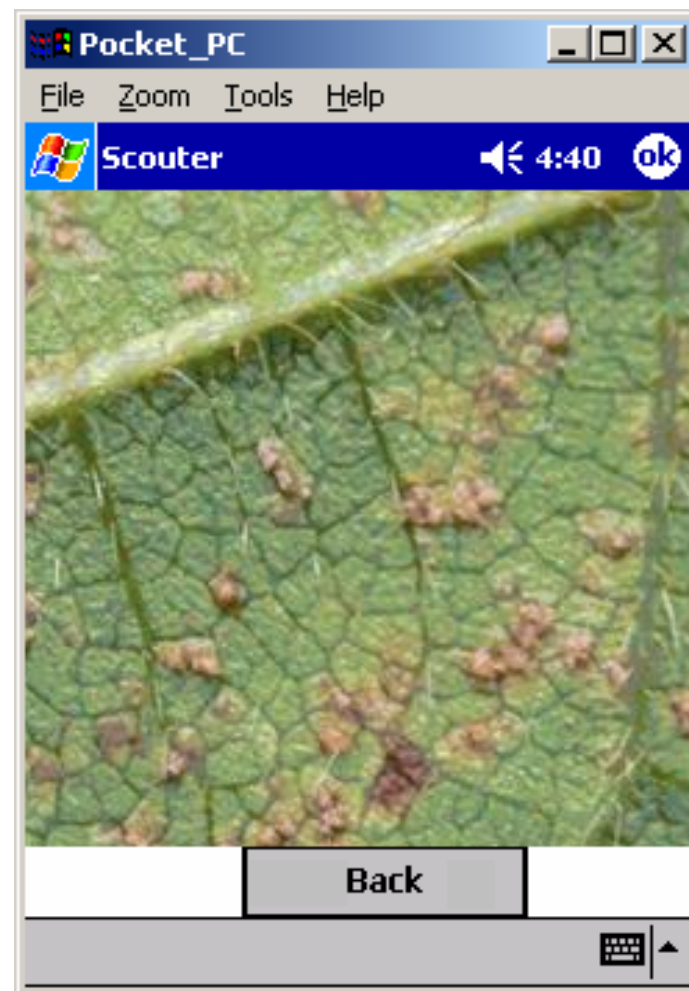
Lat:40.88801xLon:-77.77564

Save Save w/pic Cancel

Pic



Display Picture



Soybean Rust PDA

Insert PDA in Cradle



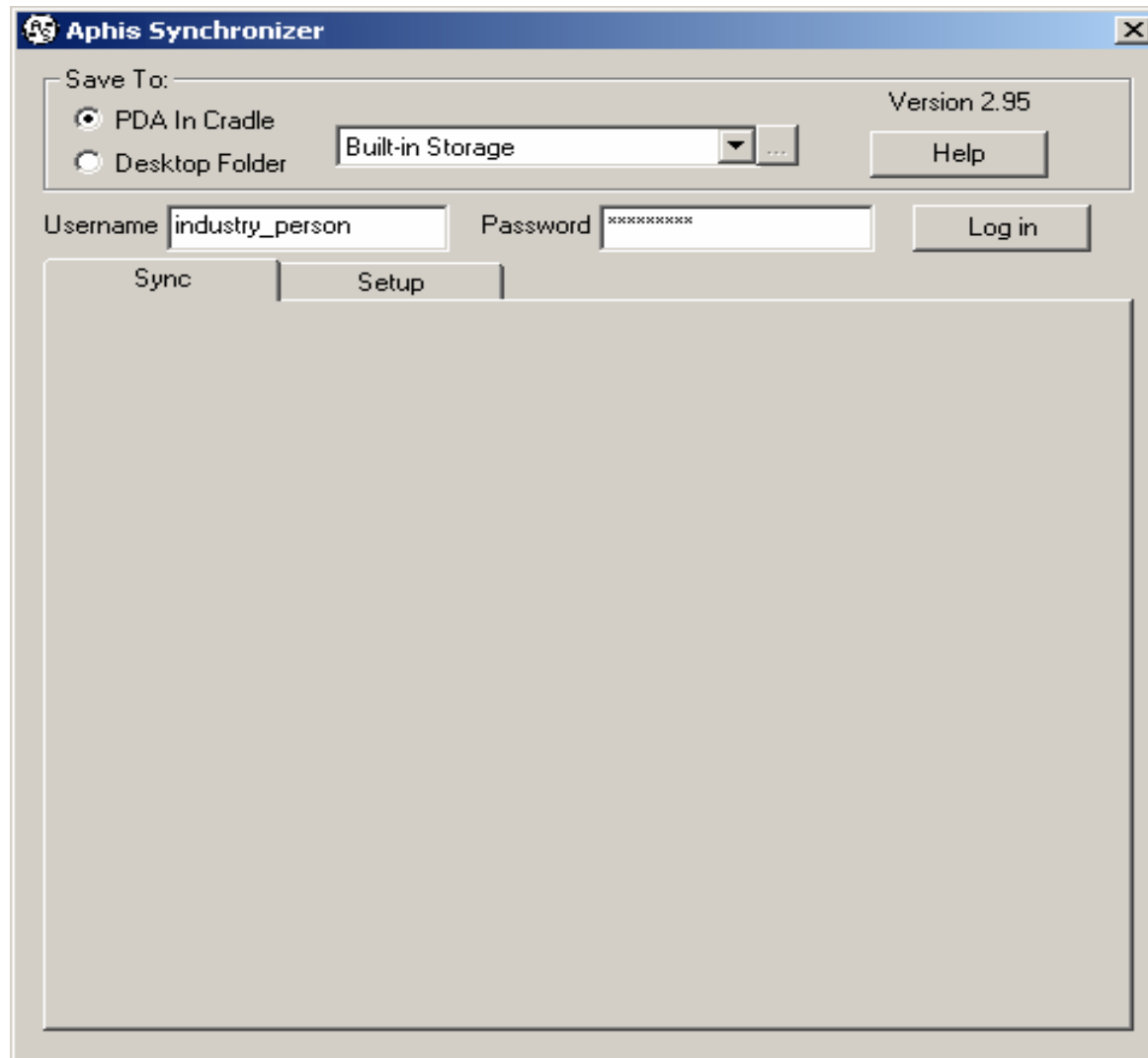
Insert Memory Card in Slot



Or

Soybean Rust PDA

Synchronizer Program Opens on Desktop



Soybean Rust PDA

Select Group & Synchronize

Aphis Synchronizer Version 2.95

Save To: ☒ PDA In Cradle ☐ Desktop Folder Built-in Storage Help

Username: industry_person Password: [masked] Log out

Sync Setup

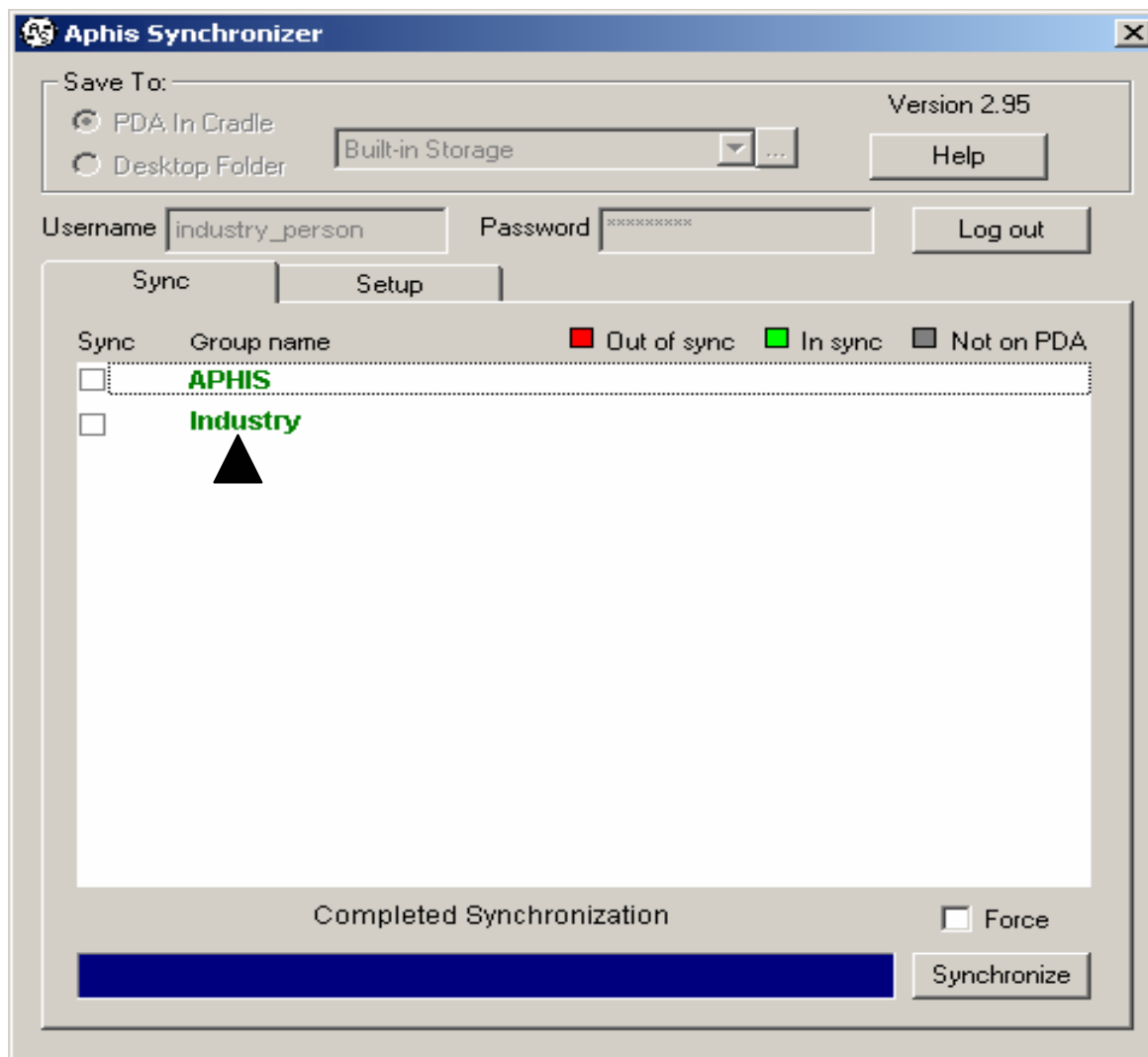
Sync	Group name	Out of sync	In sync	Not on PDA
<input checked="" type="checkbox"/>	APHIS		<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Industry	<input checked="" type="checkbox"/>		

Groups loaded


☐ Force Synchronize

Soybean Rust PDA

PDA Synchronized & Observations Added to Web Site



USDA Citrus Greening Public Web Site


Animal and Plant Health Inspection Service

Citrus Greening Information Site
[Sign Up For Alerts](#)

Getting Started

[Prev](#)
[Next](#)

November - 2005

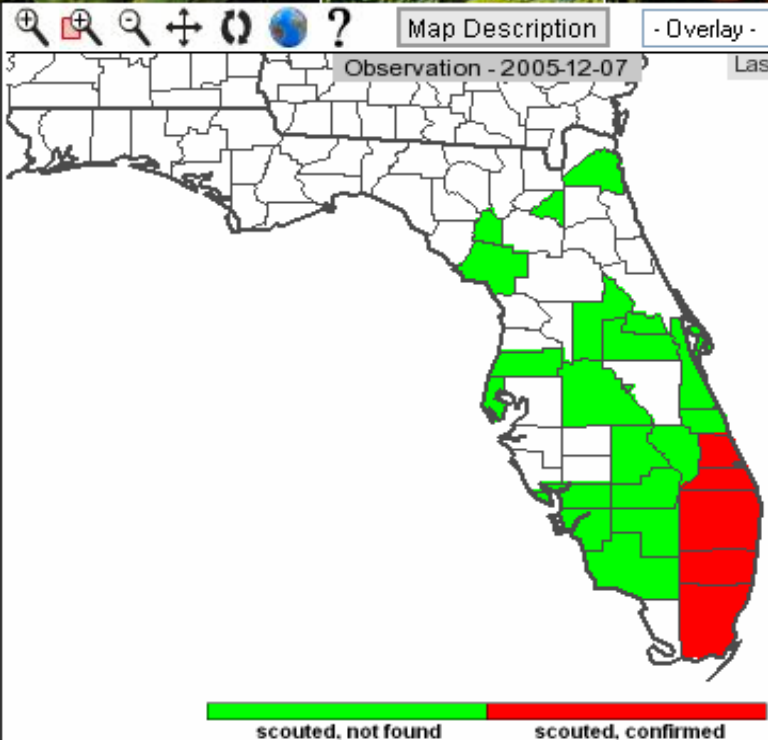
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			


December - 2005

			1	2	3
4	5	6	7	8	9
10	11	12	13	14	15
16	17	18	19	20	21
22	23	24	25	26	27
28	29	30	31		

January - 2006

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				





Map Description

- Overlay -

Load

Observation - 2005-12-07

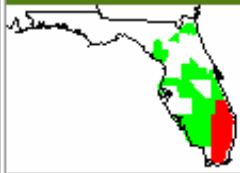
Last Update: 10/31/05

scouted, not found


scouted, confirmed

Dec 07, 2005

Observation



State Update Map



Chronology of Positive Detections

Additional Links

[FL Dept of Plant Industry - Citrus Greening Website](#)

APHIS Links

[APHIS-PPQ Citrus Greening Website](#)

Printable Map

FL State Commentary Not Available

National Map Commentary Not Available

Thank you!

Questions?